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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/567,087	02/03/2006	Katsuyuki Baba	Q93027 4612		
23373 SUGHRUE MI	23373 7590 08/03/2007 SUGHRUE MION, PLLC			EXAMINER	
2100 PENNSYLVANIA AVENUE, N.W.			WILLIAMS, MAURICE L		
SUITE 800 WASHINGTO	N. DC 20037		ART UNIT	PAPER NUMBER	
	.,		3611	•	
			MAIL DATE	DELIVERY MODE	
			08/03/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
•	10/567,087	BABA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Maurice Williams	3611				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
· _ · · · · · · · · · · · · · · · · · ·	Responsive to communication(s) filed on <u>03 February 2006</u> .					
· <u></u>	,—					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
·						
Disposition of Claims 4)						
 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 03 February 2006 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examine 11. 	e: a)⊠ accepted or b)⊡ objecte drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 02/03/06 (2). 	Paper No(s)/Mail Da 5) Notice of Informal F 6) Other: <u>Examiner's A</u>	Patent Application				

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DETAILED ACTION

Remarks

1. Due to an internal error, applicant's priority (371) documents have not been included in the prosecution file. Examiner respectfully requests that applicant send an additional copy that can be added to the file.

Information Disclosure Statement

2. The information disclosure statement filed February 3, 2006 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

(Missing references: JP 11-300560, JP 2003-291086, and NPL document – Morisawa).

Specification

3. The disclosure is objected to because of the following informalities:

Appropriate correction is required.

a. On pg. 13, ln. 11 - 'magnetic' should be changed to 'magnet'.

Claim Objections

4. Claims 4 and 5 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in the alternative only.

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See MPEP § 608.01(n). Accordingly, the claims 4 and 5 have not been further treated on the merits.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 6. Claims 1-3 are rejected under 35 U.S.C. 102(a) as being anticipated by Sugahara et al., "Design of a Battery-powered Multi-purpose Bipedal Locomotor with Parallel Mechanism," *Proc. 2002 IEEE/RSJ*, EPFL, Lausanne, Switzerland, pp. 2658-2663 (October 2002). Sugahara discloses:

A linear motion link device comprising an actuator and a holding brake (Fig. 5 – DC geared Motor with Electromagnetic Brake) which holds and locks a movable portion of said actuator, and freely telescopes in a longitudinal direction of the linear motion link device by driving of said actuator (pg. 2660, § 3.2, 3rd paragraph). The holding brake holds and locks said movable portion of said actuator at a stop of said actuator (3rd paragraph).

A motor serving as the actuator (Fig. 5);

a long bar-shaped male screw shaft portion (Fig. 5 – shown at the end of motor) fixed to a rotary shaft of said motor and provided in the longitudinal direction of said linear motion link device;

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a female screw nut portion screw-engaged with said male screw shaft portion (Fig. 5 – Screw Nut);

an inner rod portion (Fig. 5 – Lead Screw) which is fixed to the female screw nut portion and slides in the longitudinal direction of said linear motion link device by driving of said motor

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bares et al. (US 5,127,484) in view of Saisaka (JP 2000-208990).

 Bares discloses:

a linear motion link device (Fig. 4) with a motor (**60**), which telescopes in a longitudinal direction (col. 3, In. 6-8).

A male screw shaft (62) fixed to the rotary shaft of the motor

A female screw nut (A in Examiner's Appendix) engaged with the male screw shaft, and

An inner rod portion (48) fixed to the female screw, sliding in the longitudinal direction.

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Bares does not directly disclose a holding brake for the motor. Saisaka discloses a holding brake (**B**), which operates when the motor (**M**) is stopped. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention to modify Bares as taught by Saisaka in order to hold the leg in position when it is not being moved by the motor, while simultaneously saving electric power.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Roston (073), Cox (829), Fashbaugh (776), Lowder (588), Smith (220), and McColl (980).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maurice Williams whose telephone number is (571) 272-4263. The examiner can normally be reached on Monday - Friday, 8 a.m. - 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lesley Morris can be reached on (571) 272-6651. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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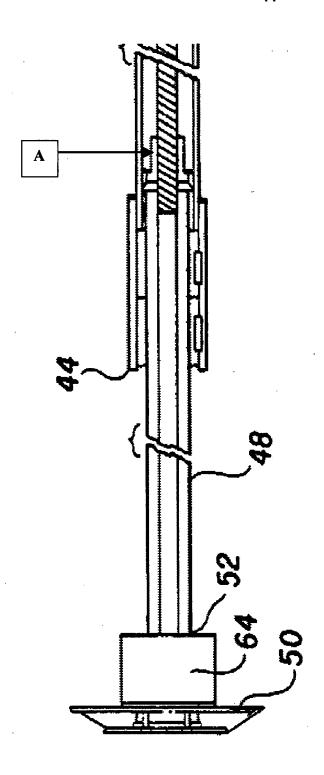
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Maurice Williams

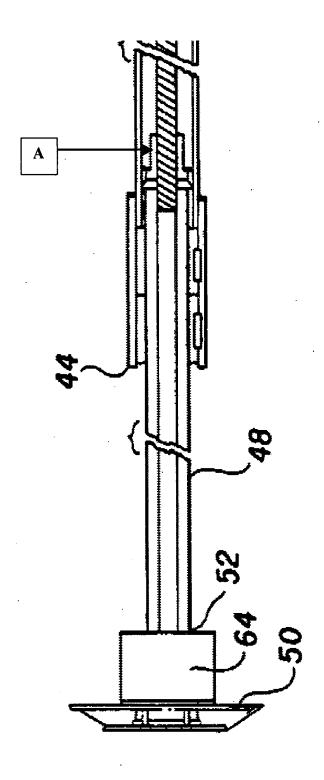
Examiner Art Unit 3611

MLW July 30, 2007

LESLEY D. MORRIS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600



Examiner's Appendix
(Bares et al. – US 5,127,484)



Examiner's Appendix
(Bares et al. – US 5,127,484)